IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A radio receiver comprising

first and second antennas connected to RF processing circuitry by an RF switch;

an RF switch control in communication with said RF switch, said RF switch control for switching between said first and second antennas ~~switched incrementally~~ in response to a predefined schedule of a sequence of scheduled packet bursts.

2. (Original) The radio receiver of claim 1, wherein:

the RF switch control schedules sequence bursts prescribed by a QoS defined by a MAC protocol.

3. (Currently amended) The radio receiver of claim 2, wherein:

said RF switch control is a MAC processor that is synchronized with transmission of a base station.

4. (Original) The radio receiver of claim 1, wherein:

the antennas are switched so that each antenna receives a related packet burst.

5. (Currently Amended) A method of maintaining a controlled QoS in a wireless communication system, comprising steps of:

receiving scheduled communications from a transceiver at a transmission station in accordance with a predefined schedule by wireless transceivers at receiving stations having switched protocol diversity reception operational modes [[;]], where said scheduled communications being formatted as multiple packet bursts;

enabling a first antenna to receive a first packet burst in accordance with said predefined schedule;

enabling a second antenna to receive a second packet burst in accordance with said predefined schedule;

recording the received bursts as soft information in a storage medium; and

combining the soft information from the first and second bursts into a single message.

6. (Original) The method of claim 5 wherein:

each packet burst contains a same complete message.

7. (Original) The method of claim 5 wherein:

each packet burst contains a portion of a space-time coded message spread across the first and second packet bursts.

8. (Currently Amended) A method of achieving a QoS control in a wireless LAN communication system, comprising steps of:

transmitting a message contained within a plurality of packet bursts occurring at spaced time intervals;

receiving each of the packet ~~burst~~ bursts individually at one of a plurality of antennas in accordance with a predefined schedule, where said predefined schedule is used to select one of said plurality of antennas for receiving each of said packet bursts.

9. (Currently amended) The method of claim 8 wherein;

each of the plurality of the antennas is connected to a radio receiver at separate times relative to other ~~receiving~~ antennas.

10. (Original) The method of claim 8, wherein:

including a complete message within each packet burst.

11. (Original) The method of claim 8 wherein:

a message is spread across the plurality of packet bursts by space-time coding.

12. (Currently amended) The method of claim 8 wherein:

the ~~process of signal~~ transmitting combines a protocol with signal processing.

13. (Currently Amended) A communication system for coupling a transmitter and a receiver adapted for receiving at least first and second signal bursts by first and second antennas respectively, and responding to the two signal bursts to communicate a single unified message at the receiver; whereby:

the first and second signal bursts are sequentially separated in time in accordance with a predefined schedule;

the first and second antennas are sequentially enabled in accordance with said predefined schedule to communicate [[to]] with at least one storage medium at the receiver;

enabling a representation of the unified message by responding to the first and second ~~signals~~ signal bursts.

14. (Original) The communication system of claim 13, wherein:

the first and second signal bursts are identical packets of a common message.

15. (Original) The communication system of claim 13, wherein:

the first and second signal bursts are each part of a space-time coded message spread across two bursts; and

a common message is derived from the sequential signal bursts received by the first and second antennas.

16. (Currently amended) The communication system of claim 13, wherein:

said enabling includes retaining the first and second signal bursts in [[a]] said at least one storage medium and processing to deliver the single unified message.

17. (Currently amended) The communication system of claim [[13]] 15, wherein:

said deriving the common message includes selecting a message from one of the ~~receiving~~ antennas.

18. (Currently amended) The communication system of claim [[13]] 15, wherein:

said deriving the common message includes decoding a space-time coded signal spread across and received by both the first and second antennas.

19. (Currently amended) The method of claim 8, including a further step of:

notifying a transmitter at a transmitting end by a receiving end of [[the]] a number of antennas and radio receivers at the receiving end.

20. (Currently amended) The method of claim 8, including a further step of:

a receiver notifying a transmitter that [[it]] said receiver accepts and responds to protocol-assisted diversity operations.

21. (Currently amended) The method of claim 8, including a further step of:

upon reconstruction of a received message sending a message to [[the]] a transmitting end to cease further message bursts.